

FROM
Intellectual Property Group of
Pillsbury Madison & Sutro
Ninth Floor, 1100 New York Avenue, N.W.
Washington, D.C. 20005-3918
Telephone: (202) 861-3000

Our Facsimile #: (202) 822-0944 or 822-0678 or 822-0679

FACSIMILE TRANSMISSION

TO: UNITED STATES PATENT AND TRADEMARK OFFICE

FACSIMILE #: (703) 305-5408 ATTN: EXAMINER SUSAN BERMAN

No. Pages (Including this page) 4 FAX Opr: _____

IF YOU DO NOT RECEIVE CLEARLY ALL PAGES, PLEASE CONTACT US IMMEDIATELY

By Telephone AT: (202) 861-3524 (local)
or (202) 861-3667 OR 861-3583 (local)

In re PATENT APPLICATION of

Inventor(s) KRONGAUZ et al. Group Art Unit: 1711

Appln. No. 08/961,084 Examiner: S. Berman

series code ↑ ↑ serial no.

Filed: October 30, 1997 Atty. Dkt. PMS 240606

M#

TITLE: DIELECTRIC, RADIATION CURABLE COATING COMPOSITIONS... Date: May 18, 1999

Name or type of signed paper being transmitted: RESUBMISSION OF CLAIMS 17-23, AS FILED

MESSAGE:

**PLEASE DELIVER IMMEDIATELY TO EXAMINER SUSAN BERMAN.
THANK YOU.**

(ATTN: Atty/Sec.: Transmit only one paper herewith. For papers not acceptable by fax, see back side or LAN Forms Directory PAT-286 Rear. Do not file originals but fasten them in our file (left side) with this sheet and fax receipt on top. Do NOT send the originals nor a confirmation copy to the PTO.)

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Name Ruth N. Morduch Sig. Ruth N. Morduch Date May 18, 1999

21028 / 240606

C# / M#

PAT-286 11/97

Official

FAX RECEIVED

MAY 18 1999

GROUP 1700

Copy

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: KRONGAUZ et al.

Serial No.: 08/961,084

Art Unit: 1711

Filed: October 30, 1997

Examiner: Susan Berman

Title: DIELECTRIC, RADIATION CURABLE COATING COMPOSITIONS
AND METAL CONDUCTORS COATED WITH SUCH COATING*Official***FAX RECEIVED**

MAY 18 1999

GROUP 1700

* * * * *

May 18, 1999

RESUBMISSION OF CLAIMS 17-23, AS FILEDHon. Commissioner of Patents
and Trademarks
Washington, DC 20231

Sir:

In response to the request from Examiner Berman, attached hereto are pages 33 and 34 of the application, as filed, containing claims 17-23. These pages are true copies of the pages, as filed. No new matter is thereby introduced.

An early office Action on the merits is respectfully requested.

Respectfully submitted,

PILLSBURY MADISON & SUTRO LLP

By Ruth N. Morduch

Ruth N. Morduch
Reg. No. 31,044
Tel: (202) 861-3617
Fax: (202) 822-0944

RNM/lmr
1100 New York Avenue, N.W.
Ninth Floor - East Tower
Washington, D.C. 20005-3918
Tel: (202) 861-3000

e) about 0.2 wt.% to about 2 wt.% of a pigment.

17. A metal conductor according to claim 1, wherein said hydrocarbon backbone is fully saturated.

18. A radiation-curable coating composition comprising:

- an acrylate functional urethane oligomer having a hydrocarbon backbone;
- one or more mono- or polyfunctional diluents; and optionally
- one or more light sensitive radical generating compounds;

which coating when cured with radiation has a dielectric dissipation factor at 60 Hz at 24°C of lower than about 0.05, a dissipation factor at 60 Hz at 150°C of lower than about 0.2, and an elongation at 25°C of a 25 µm thin cured coating of at least about 50%.

19. A radiation-curable coating composition according to claim 18, wherein said hydrocarbon backbone is fully saturated.

20. A radiation-curable coating according to claim 16, wherein the urethane oligomer is the reaction product of a hydrocarbon polyol, a polyisocyanate and an hydroxyfunctional endcapping monomer.

21. A radiation-curable coating composition according to claim 20, wherein said polyisocynate is an aliphatic polyisocyanate.
22. A metal conductor according to claim 8, wherein said one or more monomers is a mono- or polyfunctional alkylacrylate or methacrylate based monomer.
23. A method of making a metal conductor with a cured coating of about 2.5 μm to about 500 μm thickness, which cured coating has a dielectric dissipation factor (60Hz, 24°C) of lower than about 0.05 comprising the steps of:
 - a) providing a metal conductor;
 - b) coating said metal conductor with a radiation-curable coating composition which comprises:
 - i) an acrylate functional urethane oligomer having a hydrocarbon backbone;
 - ii) at least one mono- or polyfunctional diluent; and optionally
 - iii) a photoinitiator.